## **AMENDMENTS TO THE CLAIMS**

## LISTING OF CLAIMS

- 1. (original) An interconnect for a semiconductor component having a component contact comprising:
  - a substrate; and
- a compliant conductive layer on the substrate comprising a tip portion for contacting the component contact, a shaped spring segment portion supporting the tip portion, and a hollow interior portion at least partially enclosed by the spring segment portion and the tip portion.
- 2. (original) The interconnect of claim 1 wherein the shaped spring segment portion has a stepped shape open on two sides.
- 3. (original) The interconnect of claim 1 wherein the shaped spring segment portion has a dome shape or a conical shape substantially enclosing the hollow interior portion.
- 4. (original) The interconnect of claim 1 wherein the compliant conductive layer comprises a metal, a conductive polymer or a tape material.
- 5. (original) The interconnect of claim 1 wherein the compliant conductive layer comprises a conductive polymer comprising a plurality of metal particles configured to penetrate the component contact.
- 6. (original) The interconnect of claim 1 wherein the tip portion includes a penetrating structure comprising an element selected from the group consisting of points, blades and particles.

- 7. (original) The interconnect of claim 1 wherein the compliant conductive layer includes a base portion comprises a metal deposited in an opening in the substrate.
- 8. (original) The interconnect of claim 1 wherein the compliant conductive layer includes a base portion on the substrate and the shaped spring segment portion has a generally conical shape.
- 9. (original) The interconnect of claim 1 further comprising a plurality of compliant conductive layers corresponding to a plurality of component contacts on the component.
- 10. (original) The interconnect of claim 1 wherein the component is contained on a semiconductor wafer comprising a plurality of components.
- 11. (original) The interconnect of claim 1 wherein the component comprises a semiconductor package and the component contacts comprise bumps.
- 12. (original) The interconnect of claim 1 wherein the component contacts comprise planar pads.
- 13. (original) The interconnect of claim 1 wherein the component comprises a semiconductor die or a semiconductor package contained on a wafer.
- 14. (original) An interconnect for a semiconductor component having a component contact comprising:
  - a substrate; and
- a compliant conductive layer on the substrate having a stepped shape and a hollow interior portion, the layer having a base portion on the substrate, a tip portion for

contacting the component contact, and a spring segment portion configured to allow flexure of the tip portion.

- 15. (original) The interconnect of claim 14 wherein the substrate comprises a material selected from the group consisting of a semiconductor material, a plastic material and a ceramic.
- 16. (original) The interconnect of claim 14 wherein the compliant conductive layer includes a penetrating structure for penetrating the component contact.
- 17. (original) The interconnect of claim 14 wherein the compliant conductive layer comprises a polymer tape having a polymer substrate and a conductive layer on the polymer substrate.
- 18. (original) The interconnect of claim 14 wherein the compliant conductive layer comprises a conductive polymer comprising a plurality of particles configured to penetrate the component contact.
- 19. (original) The interconnect of claim 14 further comprising a conductor on the substrate in electrical communication with the compliant conductive layer.
- 20. (original) The interconnect of claim 14 further comprising a conductive via in the substrate in electrical communication with the compliant conductive layer.
- 21. (original) The interconnect of claim 14 further comprising a plurality of compliant conductive layers on the substrate corresponding to a plurality of component contacts on the component.

- 22. (original) The interconnect of claim 14 wherein the component is contained on a semiconductor wafer.
- 23. (original) An interconnect for a semiconductor component having a plurality of component contacts comprising:
  - a substrate; and
- a plurality of interconnect contacts on the substrate configured to electrically engage the component contacts, each interconnect contact comprising a base portion on the substrate, a shaped spring segment portion on the base portion, and a tip portion on the spring segment portion for contacting a component contact.
- 24. (original) The interconnect of claim 23 wherein the component is contained on a semiconductor wafer containing a plurality of components and the interconnect contacts are configured to electrically engage all of the component contacts on the wafer.
- 25. (original) The interconnect of claim 23 wherein the base portion is contained in an opening in the substrate.
- 26. (original) The interconnect of claim 23 wherein the shaped spring segment portion has a stepped shape.
- 27. (original) The interconnect of claim 23 wherein the shaped spring segment portion has a generally square shape.
- 28. (original) The interconnect of claim 23 wherein the shaped spring segment portion has a dome shape.

Claims 29-100 (canceled)